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3 (Sem-3/CBCS) ZOO HC 1

2023

**ZOOLOGY**

(Honours Core)

Paper : ZOO-HC-3016

**(Diversity of Chordata)**

Full Marks : 60

Time : Three hours

**The figures in the margin indicate full marks for the questions.**

1. Answer the following questions : 1×7=7

(i) Which is not a chordate character ?

(a) Dorsal hollow tubular nerve cord

(b) Longitudinal supporting rod-like notochord

(c) A series of pharyngeal gill slits

(d) Diploblastic

Contd.

- (ii) Balanoglossus is commonly known as
- (a) Snake worm
  - (b) Acorn worm
  - (c) Corn worm
  - (d) Hemichordata
- (iii) The Dipleurula concept was first proposed by
- (a) Darwin
  - (b) Bather
  - (c) Garstang
  - (d) None of the above
- (iv) The larva of Lamprey is
- (a) Tornaria
  - (b) Trochophore
  - (c) Ammocoete
  - (d) Ascidia tadpole larva
- (v) The Ostracoderms are grouped into
- (a) Pisces
  - (b) Agnatha
  - (c) Gnathostomata
  - (d) Tetrapoda

- (vi) Which of the following is the connecting link between osteichthyes and Amphibian ?
- (a) Peripatus
  - (b) Neopilina
  - (c) Protopterus
  - (d) Ornithorhynchus
- (vii) Snakes are sensitive to
- (a) noises made by birds
  - (b) earth borne vibrations
  - (c) thunder
  - (d) air borne vibrations
2. Answer the following :  $2 \times 4 = 8$
- (i) Write short notes on parental care in Amphibia.
  - (ii) Describe the mechanism of osmoregulation in marine fish.
  - (iii) What is active flight or true flight ?
  - (iv) State distinctive characters of class Reptilia.
3. Answer **any three** of the following questions :  $5 \times 3 = 15$
- (i) Distinguish between Lamprey and Hagfish.
  - (ii) Write a brief note on Archaeopteryx with suitable diagram.
  - (iii) Write about the anatomical peculiarities of Sphenodon.



- (iv) Distinguish between Megachiroptera and Microchiroptera.
- (v) Write briefly on Wegener's continental drift theory.
4. Answer the following questions :  $10 \times 3 = 30$
- (a) Describe the retrogressive metamorphosis in Urochordata with suitable diagrams.

Or

- (b) What do you mean by parental care? Discuss about the various mechanism of parental care in Fishes.  $2+8=10$
5. (a) Write about the general characteristics of class Amphibia. Give an outline classification of Amphibia.  $5+5=10$

Or

- (b) Birds are 'glorified reptiles'. Justify the statement.
6. (a) Name *two* venomous snake of India. Describe the biting mechanism of snake with suitable diagram.  $2+8=10$

Or

- (b) What do you mean by Zoogeography? Give an account of different zoogeographical region with its faunal diversity and distribution.  $2+8=10$